

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 02/14778

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H04Q7/22

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04Q 601S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2001/048364 A1 (KALTHOFF ROBERT MICHAEL ET AL) 6 December 2001 (2001-12-06)	1-5,7-10
Y	page 1, paragraph 12 -page 2, paragraph 15 page 3, paragraph 39 -page 3, paragraph 41 page 4, paragraph 44 -page 4, paragraph 46 page 6, paragraph 64 -page 7, paragraph 66 figures 3-3F,16A,16B	6,34,40, 60,61
Y	EP 1 243 941 A (TEXAS INSTRUMENTS INC) 25 September 2002 (2002-09-25) the whole document	6
A	—	1-5,7-10
X	WO 01 33429 A (GRAVITATE INC) 10 May 2001 (2001-05-10)	11-18
A	page 2, line 29 -page 6, line 28	1-10
	—/—	

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

- \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the International search

2 December 2003

Date of mailing of the International search report

15.12.2003

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01 26408 A (REAL VENTURE GROUP AB ; LJUNGBERG JOHAN (SE)) 12 April 2001 (2001-04-12) page 2, line 27 -page 2, line 32 page 3, line 27 -page 4, line 9 page 5, line 24 -page 5, line 29 page 7, line 15 -page 7, line 33	11-13, 15-17
X	WO 97 41654 A (MCLORINAN ANDREW GEORGE ; TSOUKAS GEORGE JAMES (AU); ERICSSON TELEF) 6 November 1997 (1997-11-06) page 2, line 8 -page 3, line 25 page 5, line 11 -page 5, line 29	19-23
X	US 2002/035605 A1 (KHALIL JOSEPH ET AL) 21 March 2002 (2002-03-21) page 2, paragraph 34 -page 3, paragraph 37 page 4, paragraph 57	19-23
X	US 2002/173906 A1 (MURAMATSU TOSHIHIKO) 21 November 2002 (2002-11-21)	24, 27-29, 33, 48-59
Y	figures 10,17 page 1, paragraph 2 page 1, paragraph 12 page 2, paragraph 34 -page 3, paragraph 46 page 4, paragraph 73 -page 4, paragraph 78 page 5, paragraph 85 -page 6, paragraph 103	25, 26, 30-32, 34-40, 60, 61
Y	GARMIN LTD.: "NavTalk GSM Phone/GPS owner's manual and reference guide" GARMIN MANUALS, 'Online! November 2002 (2002-11), pages 1-118, XP002263403 Retrieved from the Internet: <URL: <a href="http://www.garmin.com/manuals/NavTalk_GSM_OwnersManual.pdf">http://www.garmin.com/manuals/NavTalk_GSM_OwnersManual.pdf</a> > 'retrieved on 2003-11-27! page 65 -page 94	25, 26, 30-32, 35-40
X	US 6 492 941 B1 (BEASON LAWRENCE W ET AL) 10 December 2002 (2002-12-10)	41, 44-47
Y	the whole document	42, 43
Y	US 6 167 277 A (KAWAMOTO YOJI) 26 December 2000 (2000-12-26) column 6, line 33 -column 7, line 18	42, 43
-/-		

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## C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	"Digital cellular telecommunications system (Phase 2+); Location Services (LCS); Functional description; Stage 2 (3GPP TS03.71 version 8.7.0 Release 1999)" ETSI TS101724 V8.7.0, September 2002 (2002-09), pages 1-109, XP002255741 page 78 -page 88 page 99 -page 102	1-61

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## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

## INTERNATIONAL SEARCH REPORT

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### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

#### 1. Claims: 1-10,48-61

Group I: After determines its own position, the terminal receives position information from other nodes and processes these two informations.

#### 2. Claims: 11-23

Group II: transmitting a request to a server in the network, processing the request in the server by searching through a database for information matching the request and replying with information matching to the location of the mobile terminal

#### 3. Claims: 24-40

Group III: based on previous position information the mobile terminals tracks changes with respect to its own previous positions

#### 4. Claims: 41-47

Group IV: The location of all members of a group of terminals is determined by a server and then transmitted to all members of the group

**INTERNATIONAL SEARCH REPORT**  
 Information on patent family members

International Application No  
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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 2001048364	A1	06-12-2001	AU WO	4322701 A 0163315 A2		03-09-2001 30-08-2001
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US 6492941	B1	10-12-2002	US	6373430 B1		16-04-2002
US 6167277	A	26-12-2000	JP US	9178833 A 6584320 B1		11-07-1997 24-06-2003